

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alcassedan, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/797,045	03/11/2004	Jin-Guang Teng	007198-587	4689	
21839 7590 06/10/2009 BUCHANAN, INGERSOLL & ROONEY PC			EXAM	EXAMINER	
POST OFFICE BOX 1404			CHAPMAN, JEANETTE E		
ALEXANDRI	A, VA 22313-1404		ART UNIT	PAPER NUMBER	
			3633		
			NOTIFICATION DATE	DELIVERY MODE	
			06/10/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com

Office Action Summary

Application No.	Applicant(s)					
10/797,045	TENG, JIN-GUANG					
Examiner	Art Unit					
Jeanette E. Chapman	3633					

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPt 1.138(a). In no event, however, may a reply be timely filed as the provision of 37 CPt 1.138(a). In no event, however, may a reply be timely filed in the provision of 37 CPt 1.138(a). In the court, however, may a reply be timely filed or 1.1 Months of the provision of 37 CPt 1.138(a). In order to expire SIX (6) MONTHS from the making date of this communication of the property whith the set or exhended period for reply with the state, cause the application to become AMMONDED (38 CS, 5133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned pattern term adjustments. See 37 CPt 1.74(b).
Status
Responsive to communication(s) filed on 19 March 2009. This action is FINAL. 2b ☐ This action is non-final. Gince this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) ⊠ Claim(s) 1.7-9 and 11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1.7-9.11 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.
Application Papers
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) - Information-Disclosure-Statement(s) (PTO-0500) Paper Nots)Mail Date - Paper Nots)Mail Date	4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informat Patr of Application 6) Other:	

Application/Control Number: 10/797,045

Art Unit: 3633

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satake et al(4142555) in view of Mirmiran et al (5599599) and Hsich et al (5972450).

Satake discloses a double skin tubular construction;

- 1. a reinforced polymer outer tube 4;
- 2. an inner tube 1 made from a steel material
- a filler material 3 between the outer and the inner tube 4 and 1 respectively
- the providing and inserting steps have obviously been performed by Satke as they are shown
- 5. the fibber reinforced polymer acts as a construction form during a curing stage of the filler as much as applicants polymer performs with the same limitations; there are no real or positively recited method steps in claim 9.

Mirmiran discloses a plurality of fibre reinforced polymer layers (column 3, line 62 through line 4 line 10) including a majority of fibers oriented circumferentially around the tube. Mirmiran discloses a filler mater provided between the outer tube and the inner tube.

Application/Control Number: 10/797,045

Art Unit: 3633

Satake and Mirmiran lacks the reinforce polymer outer tube formed alond an entire length of the steel inner tube. Hisch et al discloses the reinforced polymer outer tube 14/12 formed along an entire length of the steel inner tube 10. It would have been obvious to one of ordinary skill in the art to have the outer tuber of reinforced polymer formed along the entire length to provide corrosion protection along the entire length as shown by Hisch et al.

The material for the aggregate filler and the method in which the fibre reinforce polymer has been made has been considered a matter of choice. One of ordinary skill in the art would have appreciated all of the known types of fillers and aggregates and would have selected any one capable of filling the intended use, function and purpose of the invention. Moreover, the claims are not directed to a method but article the fibre reinforced polymer layers are shown by mirmiran. It would have been obvious to one of ordinary skill in the art to modify Satake to include the bound aggregate material of any material in order to strengthen the tubular structure and to protect any steel or metal bars from the effects of corrosion. One of ordinary skill in the art would have appreciated all the methods to construct them and would have selected any one method commensurate with the intended use and financial budget.

Response to Arguments

Applicant's arguments are moot in view of the new ground of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/797,045

Art Unit: 3633

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chapman E. Jeanette whose telephone number is 571-272-6841. The examiner can normally be reached on Mon.-thursday, 8:30-6:00, every fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on 571-272-6777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/797,045 Page 5

Art Unit: 3633

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JEANETTE CHAPMAN/ PRIMARY PATENT EXAMINER ART UNIT 3633